

att gag cgg gat gca gct ctt gca gaa aac gcc gga gtc gat att ctt 1346
 Ile Glu Arg Asp Ala Ala Leu Ala Glu Asn Ala Gly Val Asp Ile Leu
 355 360 365

ttt acg cca gat gct cat gat atg tat ccc ggt gaa aag aat gtc acg 1394
 Phe Thr Pro Asp Ala His Asp Met Tyr Pro Gly Glu Lys Asn Val Thr
 370 375 380

att cat gta gaa aga cgc aca gac gtg tta tgc ggg cgc tca aga gaa 1442
 Ile His Val Glu Arg Arg Thr Asp Val Leu Cys Gly Arg Ser Arg Glu
 385 390 395

gga cat ttt gac ggg gtc gcg atc gta ctg acg aag ctt ttc aat cta 1490
 Gly His Phe Asp Gly Val Ala Ile Val Leu Thr Lys Leu Phe Asn Leu
 400 405 410 415

gtc aag ccg act cgt gcc tat ttc ggt tta aaa gat gcg cag cag gta 1538
 Val Lys Pro Thr Arg Ala Tyr Phe Gly Leu Lys Asp Ala Gln Gln Val
 420 425 430

gct gtt gtt gat ggg tta atc agc gac ttc ttc atg gat att gaa ttg 1586
 Ala Val Val Asp Gly Leu Ile Ser Asp Phe Phe Met Asp Ile Glu Leu
 435 440 445

gtt cct gtc gat acg gtc aga gag gaa gac ggc tta gcc aaa agc tct 1634
 Val Pro Val Asp Thr Val Arg Glu Glu Asp Gly Leu Ala Lys Ser Ser
 450 455 460

cgc aat gta tac tta aca gct gag gaa aga aaa gaa gcg cct aag ctg 1682
 Arg Asn Val Tyr Leu Thr Ala Glu Glu Arg Lys Glu Ala Pro Lys Leu
 465 470 475

tat cgg gcc ctt caa aca agt gcg gaa ctt gtc caa gcc ggt gaa aga 1730
 Tyr Arg Ala Leu Gln Thr Ser Ala Glu Leu Val Gln Ala Gly Glu Arg
 480 485 490 495

gat cct gaa gcg gtg ata aaa gct gca aaa gat atc att gaa acg act 1778
 Asp Pro Glu Ala Val Ile Lys Ala Ala Lys Asp Ile Ile Glu Thr Thr
 500 505 510

agc gga acc ata gac tat gta gag ctt tat tcc tat ccg gaa ctc gag 1826
 Ser Gly Thr Ile Asp Tyr Val Glu Leu Tyr Ser Tyr Pro Glu Leu Glu
 515 520 525

cct gtg aat gaa att gct gga aag atg att ctc gct gtt gca gtt gct 1874
 Pro Val Asn Glu Ile Ala Gly Lys Met Ile Leu Ala Val Ala Val Ala
 530 535 540

ttt tca aaa gcg cgt tta ata gat aat atc att att gat att cga gaa 1922
 Phe Ser Lys Ala Arg Leu Ile Asp Asn Ile Ile Ile Asp Ile Arg Glu
 545 550 555

atg gag aga ata taat atg tat cga aca atg atg agc ggc aaa ctt cac 1971
 Met Glu Arg Ile Met Tyr Arg Thr Met Met Ser Gly Lys Leu His
 560 565 570

agg gca act gtt acg gaa gca aac ctg aac tat gtg gga agc att aca 2019
 Arg Ala Thr Val Thr Glu Ala Asn Leu Asn Tyr Val Gly Ser Ile Thr
 575 580 585 590

att gat gaa gat ctc att gat gct gtg gga atg ctt cct aat gaa aaa 2067

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Ile Asp Glu Asp Leu Ile Asp Ala Val Gly Met Leu Pro Asn Glu Lys
      595                      600                      605

gta caa att gtg aat aat aat aat gga gca cgt ctt gaa acg tat att 2115
Val Gln Ile Val Asn Asn Asn Asn Gly Ala Arg Leu Glu Thr Tyr Ile
      610                      615                      620

att cct ggt aaa cgg gga agc ggc gtc ata tgc tta aac ggt gca gcc 2163
Ile Pro Gly Lys Arg Gly Ser Gly Val Ile Cys Leu Asn Gly Ala Ala
      625                      630                      635

gca cgc ctt gtg cag gaa gga gat aag gtc att att att tcc tac aaa 2211
Ala Arg Leu Val Gln Glu Gly Asp Lys Val Ile Ile Ile Ser Tyr Lys
      640                      645                      650

atg atg tct gat caa gaa gcg gca agc cat gag ccg aaa gtg gct gtt 2259
Met Met Ser Asp Gln Glu Ala Ala Ser His Glu Pro Lys Val Ala Val
      655                      660                      665                      670

ctg aat gat caa aac aaa att gaa caa atg ctg ggg aac gaa cca gcc 2307
Leu Asn Asp Gln Asn Lys Ile Glu Gln Met Leu Gly Asn Glu Pro Ala
      675                      680                      685

cgt aca att ttg tagaagaaaa gcccccttta tcggggggttt tcttttaaga tttt 2363
Arg Thr Ile Leu
      690

<210> 60
<211> 293
<212> PRT
<213> Bacillus subtilis

<400> 60
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Asn Asp Tyr Leu Ser Val Glu Glu Val Glu Thr Ile Tyr Ile Pro Leu
      20                      25                      30

Val Arg Leu Leu His Leu His Val Lys Ser Ala Ala Glu Arg Asn Lys
      35                      40                      45

His Val Asn Val Phe Leu Lys His Pro His Ser Ala Lys Ile Pro Phe
      50                      55                      60

Ile Ile Gly Ile Ala Gly Ser Val Ala Val Gly Lys Ser Thr Thr Ala
      65                      70                      75                      80

Arg Ile Leu Gln Lys Leu Leu Ser Arg Leu Pro Asp Arg Pro Lys Val
      85                      90                      95

Ser Leu Ile Thr Thr Asp Gly Phe Leu Phe Pro Thr Ala Glu Leu Lys
      100                      105                      110

Lys Lys Asn Met Met Ser Arg Lys Gly Phe Pro Glu Ser Tyr Asp Val
      115                      120                      125

Lys Ala Leu Leu Glu Phe Leu Asn Asp Leu Lys Ser Gly Lys Asp Ser
      130                      135                      140

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[illegible]